

DERWENT-ACC-NO: 2003-131804

DERWENT-WEEK: 200325

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TITLE: Method to give biodegradability to thermoplastic aromatic polyester resin, e.g. for food packaging, by dispersing swellable lamellar silicate, e.g. swellable mica treated with ammonium ions, in the resin

PATENT-ASSIGNEE: TEIJIN LTD[TEIJ]

PRIORITY-DATA: 2000JP-0375673 (December 11, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2002179897 A	June 26, 2002	N/A	005	C08L 067/03

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP2002179897A	N/A	2000JP-0375673	December 11, 2000

INT-CL (IPC): C08K007/00, C08K009/04 , C08L067/03

ABSTRACTED-PUB-NO: JP2002179897A

BASIC-ABSTRACT:

NOVELTY - A method to give biodegradability to thermoplastic aromatic polyester resin by dispersing swellable lamellar silicate(s) into the resin.

USE - The thermoplastic resin can be used to make agricultural films and food packaging material.

ADVANTAGE - Thermoplastic aromatic polyester resin having biodegradability and gas barrier properties is prepared readily by the present procedure.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: METHOD BIODEGRADABLE THERMOPLASTIC AROMATIC POLYESTER RESIN FOOD

PACKAGE DISPERSE SWELLING LAMELLA SILICATE SWELLING MICA TREAT  
AMMONIUM ION RESIN

DERWENT-CLASS: A23 A92 E16 E33

CPI-CODES: A05-E01D3; A08-M08; A09-A07; A12-P01; A12-W04A; E10-A22G;  
E31-P05B;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

A111 A212 A220 A313 A940 B114 B701 B702 B712 B713  
B720 B831 B832 C101 C108 C550 C802 C804 C805 C807  
M411 M730 M782 M904 M905 Q130 R038

Specific Compounds

16529K 16529Q 16529M

Chemical Indexing M3 \*02\*

Fragmentation Code

A111 A212 A940 A980 B114 B701 B712 B720 B752 B770  
B780 B831 B832 B833 C009 C100 C108 C803 C804 C805  
C807 M411 M730 M782 M904 M905 Q130 R038

Specific Compounds

A566MK A566MQ A566MM

Chemical Indexing M3 \*03\*

Fragmentation Code

G013 G019 G100 H4 H401 H481 H8 J0 J014 J1  
J131 J2 J232 M280 M312 M323 M332 M342 M383 M393  
M423 M510 M520 M533 M540 M782 M904 M905 M910 R038

Specific Compounds

02038K 02038M

Registry Numbers

2038U

Chemical Indexing M3 \*04\*

Fragmentation Code

G013 G019 G100 J0 J014 J2 J232 M280 M314 M323  
M332 M342 M383 M393 M423 M510 M520 M533 M540 M782  
M905 R038

Specific Compounds

A02NVK A02NVM

Chemical Indexing M3 \*05\*

Fragmentation Code

H1 H181 H401 H402 H403 H404 H481 H482 H483 H484

H581 H582 H583 H584 K0 L640 L660 L699 L7 L722  
M210 M211 M212 M213 M214 M215 M216 M220 M221 M222  
M223 M224 M225 M226 M231 M232 M233 M273 M280 M281  
M282 M283 M311 M312 M313 M314 M315 M316 M320 M321  
M322 M323 M331 M332 M333 M340 M342 M383 M391 M392  
M393 M416 M620 M730 M782 M904 M905 Q130 R038  
Markush Compounds  
200072-73101-K 200072-73101-Q 200072-73101-M

UNLINKED-DERWENT-REGISTRY-NUMBERS: 2038U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; D18\*R ; H0317 ; S9999 S1285\*R ; P0839\*R F41 D01 D63 ; H0293

Polymer Index [1.2]

018 ; H0317 ; S9999 S1285\*R ; P0884 P1978 P0839 H0293 F41 D01 D11  
D10 D19 D18 D31 D50 D63 D90 E21 E00 ; P0895 P1978 P0839 H0293 F41  
D01 D11 D10 D19 D18 D31 D50 D63 D92 E21 E00 ; M9999 M2391

Polymer Index [1.3]

018 ; ND07 ; B9999 B3021 B3010 ; B9999 B4864 B4853 B4740 ; Q9999  
Q6702\*R ; Q9999 Q8366\*R ; Q9999 Q7589\*R ; K9449

Polymer Index [1.4]

018 ; D00 F80 Si 4A ; R16529 D00 F80 Al 3A Si 4A O\* 6A ; A999 A237  
; B9999 B3383\*R B3372 ; B9999 B5436 B5414 B5403 B5276

Polymer Index [1.5]

018 ; G3010 D00 F80 Al 3A Si 4A O\* 6A ; A999 A237 ; B9999 B3383\*R  
B3372 ; B9999 B5436 B5414 B5403 B5276

Polymer Index [1.6]

018 ; D01 D11 D10 D50 D61\*R D84 D85 D86 D87 D88 D89 D90 D91 D92  
D93 D94 D95 F16 ; A999 A204

Polymer Index [2.1]

018 ; P0975\*R P0964 F34 D01 D10 ; M9999 M2153\*R ; M9999 M2835 ;  
M9999 M2039 ; A999 A204 ; A999 A782

Polymer Index [2.2]

018 ; R00351 G1558 D01 D23 D22 D31 D42 D50 D73 D82 F47 ; H0000 ;  
P0055 ; P8004 P0975 P0964 D01 D10 D11 D50 D82 F34 ; M9999 M2039  
; M9999 M2153\*R ; M9999 M2835 ; M9999 M2324 ; A999 A204 ; A999 A782

Polymer Index [2.3]

018 ; Cl 7A ; H0157

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2003-033935

DERWENT-ACC-NO: 2001-274331

DERWENT-WEEK: 200129

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TITLE: Starch-base/acrylic acid series photo degradable and  
biodegradable resin and its preparation

INVENTOR: DENG, S; MEI, X

PATENT-ASSIGNEE: MEI X[MEIXI]

PRIORITY-DATA: 1996CN-0120763 (November 25, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1281007 A	January 24, 2001	N/A	000	C08L 051/02

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
CN 1281007A	N/A	1996CN-0120763	November 25, 1996

INT-CL (IPC): C08K003/34, C08L051/02

ABSTRACTED-PUB-NO: CN 1281007A

BASIC-ABSTRACT:

NOVELTY - A photo degradable and biodegradable resin is prepared from graft modified starch copolymer, photosensitizing agent, plastic additive and white mica powder through graft modifying the starch copolymer, fusing, adding the remaining components and pugging.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: STARCH BASE ACRYLIC ACID SERIES PHOTO DEGRADE  
BIODEGRADABLE RESIN  
PREPARATION

DERWENT-CLASS: A11

CPI-CODES: A03-A; A08-M; A08-R06B; A09-A07; A10-E07B; A11-A02;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-083372